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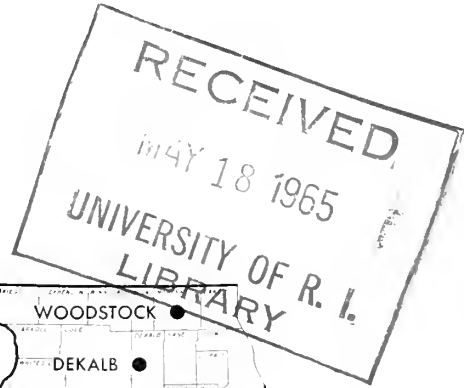
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Circular 903

Performance of COMMERCIAL CORN HYBRIDS IN ILLINOIS 1962-1964



LOCATION OF
1964 TEST FIELDS

By W. D. Pardee, G. L. Ross,
K. E. Williams

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This circular was prepared by W. D. Pardee, Assistant Professor of Forage Crop Extension, and G. L. Ross and K. E. Williams, Crops Testing Technicians. Data processing was done by the Statistical Laboratory of the Agronomy Department. Samuel G. Carmer, Assistant Professor of Biometry, supervised the analysis and preparation of the data.

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PERFORMANCE OF COMMERCIAL CORN HYBRIDS IN ILLINOIS, 1962-1964

THIS CIRCULAR brings you up-to-date, unbiased information on corn hybrids in Illinois. To get top yields you need first-rate hybrids. This report will help you choose your hybrids. It includes measurements of yield per acre, percent moisture at harvest, percent erect plants, and percent stand for each of the several hundred hybrids entered in these trials.

This information can serve as your starting point. Pick out those hybrids that have performed well on test sites near your farm. Ask seed company representatives about the disease resistance of the hybrids and their tolerance to crowding and adaptability to your particular soil. Choose several that seem to best fit your needs. Plant them side by side, preferably in strips, next to your present hybrids. Then see how they compare. Look at standability, disease resistance, and maturity, as well as yield. Each factor can affect your profits. The best hybrid for you is the one that puts the most grain in *your* crib or hopper.

PLAN OF THE TESTS

Selection of entries. Each year all producers of hybrid seed corn in Illinois and surrounding states are invited to enter hybrids in the Illinois performance trials. We include all hybrids nominated. To finance this testing program, a fee is charged for each hybrid entered by seed companies. Most of these hybrids are commercially available, but seed companies occasionally enter experimental hybrids for testing.

For several years many Illinois farmers have requested information on hybrids commercially available in Illinois, but not entered in the testing program. To meet this demand, county extension committees are permitted to nominate up to five hybrids per county. These are to include only hybrids that are for sale in the county and for which unbiased information is unavailable. A number of hybrids have now been tested for two years under this program.

Number and location of tests. In 1962, 1963, and 1964, 14 major tests were carried on at 11 locations in the state (see map on cover). These sites were chosen to represent major soil and climatic areas of the state.

Table 1. — GENERAL INFORMATION: Illinois Commercial Hybrid Corn Tests, 1964

Field, county, location, and number of entries	Date planted	Date harvested	Average acre yield	Moisture in grain	Erect plants	Stand
Regular planting rate			<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Woodstock: McHenry, Ex. N, 64	May 18	Nov. 4-5	73	24.4	86	89
DeKalb: DeKalb, N, 81.....	May 15	Nov. 10-11	119	18.3	96	96
Galesburg: Knox, WNC, 121....	May 14	Oct. 28-29	99	17.4	98	91
Ashkum: Iroquois, ENC, 90.....	May 12	Nov. 2-3	88	17.0	83	90
Augusta: Hancock, WC, 56.....	May 20	Oct. 30	97	18.5	96	86
Stanford: McLean, C, 100.....	May 11	Oct. 12-13	97	21.0	83	87
Urbana: Champaign, EC, 110....	May 5	Nov. 12-13	120	13.8	98	94
Greenfield: Macoupin, WSC, 56..	May 9	Oct. 20	101	15.3	97	92
Brownstown: Fayette, S, 72.....	May 6	Oct. 1	42	21.1	87	83
Dixon Springs: Pope, Ex. S, 72..	May 19	Oct. 15-16	108	19.9	93	93
Carbondale: Jackson, Ex. S, 72...	May 7	Sept. 30	32	18.4	78	91
Increased planting rate						
DeKalb: DeKalb, N, 64.....	May 15	Nov. 10	114	18.7	92	91
Urbana: Champaign, EC, 72.....	May 21	Nov. 17	62	15.7	93	94
Greenfield: Macoupin, WSC, 42..	May 9	Oct. 21	108	14.9	94	91

Hybrids and methods of obtaining seed. Each year about 400 hybrids are tested, including entries from nearly 60 companies. University workers personally take samples from seed lots in company warehouses and seed supplies for all company entries. The Illinois station furnishes seed of open-pedigreed hybrids. County extension committees supply seed for county entries.

Field-plot design. Each test was set up in either randomized complete block or lattice designs. These arrangements are practical and efficient and give each hybrid an equal chance to show its merits.

Planting methods. We planted all trials by machine on land prepared in the normal way for corn. All test fields except those at DeKalb, Urbana, Brownstown, and Carbondale were part of larger corn fields and were surrounded by farmers' corn. Plots were kept small to avoid differences due to soil variation. Each individual plot was one row, 33 feet long. Planting resembled "power checking"; one, two, or three kernels were planted each 20 inches, depending on the planting rate chosen. The planting rate at Brownstown was 14,000 plants per acre; the Galesburg, Ashkum and Stanford fields were planted at 18,000 plants per acre. All other "regular rate" tests were at 16,000 plants per acre. For the "increased rate" tests, planting rates were 20,000 per acre at DeKalb, Urbana, and Greenfield. The plots were not thinned.

Fertilization. In general, all test fields were at a high level of fertility. Additional fertilizer was plowed down or side-dressed as needed to assure top yields.

Method of harvest. We harvested all plots mechanically with a Massey-Ferguson self-propelled corn-head combine in 1962, 1963, and 1964. Shelled corn from each plot was collected, weighed, and tested at once for moisture percentage. Missed or dropped ears were not gleaned, and no allowance was made for shelled corn that might have been lost in harvest.

MEASURING PERFORMANCE

In this circular we are presenting only two- and three-year summaries. We believe that at least two-years' data are needed to properly judge performance. In each summary table the hybrids are listed in order of their average moisture content of grain at harvest. This arrangement is intended to reduce the emphasis often placed on yield alone and to call attention to the importance of proper maturity. It sometimes happens that hybrids too late in maturity for a given area are entered in the tests. While such hybrids often are high in yield, their high moisture content might make them unsafe choices for use unless proper drying or storage facilities are available.

Yield of grain. At harvest we measured shelled-corn weight and moisture percentage for each plot of each hybrid and converted yields to shelled corn at 15.5 percent moisture. This is the upper moisture limit for No. 2 corn. A Radson transistorized moisture tester was used for all moisture readings.

Erect plants. We counted the number of erect plants in each plot of each hybrid at harvest time. Any plant leaning at an angle of more than 45° or broken below the ear was considered lodged. Plants only broken above the ear were considered erect.

Stand. In late summer, after silking time, we counted the number of plants in all plots on all fields, and computed the percent of stand by comparing this number with the number of kernels planted. Stand differences can be caused by failure to germinate, or by disease, insect injury, or cultivation damage.

Comparing hybrids. In any test of plant or animal material it is impossible to measure performance exactly. Samples may vary, soil may not be uniform, and many other conditions may produce variability. Results of repeated tests, like those reported in this circular, are more reliable than those of a single year or a single strip test. In general, you should not consider yield differences of a few

bushels per acre as significant in small-plot tests. Yet when one hybrid consistently outyields another at several test locations and over several years of testing, the chances are good that this difference is real and should be a consideration in choosing a hybrid. But yield alone is not enough. Consider also the grain moisture content and percentage of erect plants in comparing hybrids.

GROWING CONDITIONS ON 1964 TEST FIELDS

In much of Illinois, the 1964 corn growing season was relatively dry (see Table 2 for rainfall data). A dry May facilitated early planting. However, poor stands were common in areas where the amount of rainfall was inadequate for plant growth after seed germination. June weather was ideal for corn, with temperatures in the 70s and few days without a little precipitation. July started out with high temperatures and abundant precipitation. It appeared that the record corn crop of 1963 would be broken. Although northern Illinois continued to receive adequate rainfall throughout July, central and southern Illinois had, by the middle of the month, started a new record for dryness. Urbana had one of the driest growing seasons on record. August was dry until after the middle of the month. Rainfall in the latter part of August helped most of the corn mature before the first killing frost. Harvest was facilitated by the driest October in 75 years, and was virtually completed by late November, except in those areas where boxcar shortages were acute.

Extreme Northern Illinois: Woodstock. This test field represents the cool, humid area in northeastern Illinois. For the past

Table 2. — GROWING SEASON RAINFALL

Field	May	June	July	August
		<i>inches</i>		
Woodstock.....	2.80	4.02	4.93	2.59
DeKalb.....	1.95	4.77	4.80	1.89
Galesburg.....	0.64	3.69	2.67	1.74
Ashkum.....	0.78	4.01	2.72	1.13
Augusta.....	0.89	3.02	4.54	4.84
Stanford.....	1.07	5.07	4.14	2.55
Urbana.....	0.58	5.20	2.41	2.59
Greenfield.....	1.56	1.28	0.65	2.24
Brownstown.....	1.45	2.61	1.37	2.24
Dixon Springs.....	2.65	1.77	3.97	2.44
Carbondale.....	2.19	2.36	3.76	3.02

several years, this test has been located on the Hughes Farms west of Woodstock in McHenry County. The test field in 1964 was in fourth-year corn; another field in first-year corn was used in 1963. The soil type is Proctor silt loam, a fertile, deep, well-drained, dark prairie soil. Rainfall was adequate for a normal growing season in 1964; a late summer drouth reduced yields in 1963.

Northern Illinois: DeKalb. This test is at the University's Northern Illinois Research Center near Shabbona in DeKalb County. R. E. Bell is field manager of this research center. The three-years' tests reported from this location are from first-year corn, in a corn-corn-oats-clover rotation. Fertility of the dark-brown, adequately drained Flanagan silt loam is high. Growing conditions were excellent in both 1963 and 1964.

West North-Central Illinois: Galesburg. For the past several years, this test has been located on land owned by Ralph Hawthorne and operated by Ralph Anderson. County extension personnel, especially Don Teel, have assisted actively in planning, planting, and harvesting the tests. In both 1963 and 1964, the test field was on a highly fertile tract of Sable silty clay loam, a rather heavy-textured soil typical of the surrounding area.

East North-Central Illinois: Ashkum. The influence of Lake Michigan on climate and the generally poorly drained soils occurring in this area make growing conditions at this site quite different from those of other sections of Illinois. The Ashkum test field representing this area is on the Don Peterson farm, operated by Merle Diefenbach. The soil type is Pella clay loam, a fine-textured, poorly drained soil formed on lake-bed clay. The same field was used for the 1962, 1963, and 1964 tests. It has now been in corn for seven years, but is still very high in fertility.

West Central-Illinois: Augusta. This test is located on the Oscar Finney farm between Augusta and Bowen in Hancock County. The soil is Harrison silt loam, a moderately well-drained, dark grayish-brown prairie soil. Natural fertility of the soil is not high, but good conservation practices and recommended cropping systems have brought the yielding capacity of the field up to a moderately high level. Rainfall was spotty but adequate for a good corn crop in both 1963 and 1964.

Central Illinois: Stanford. This test field is on a farm operated by Robert Buth, near Stanford in the western part of McLean County.

The soil is a deep, well-drained, fertile type, classified as Muscatine silt loam. Growing conditions were excellent in 1963, but rainfall was low in May, 1964, contributing to poor stands that reduced potential performance.

East-Central Illinois: Urbana. This test, representing the east-central Illinois cash-grain area, is located on the Agronomy South Farm of the University of Illinois at Urbana in Champaign County. C. H. Farnham is manager of this farm. Fields on which test plots were grown in 1963 and 1964 are level, rather heavy-textured Drummer silty clay loam. The 1964 crop followed 2 years of alfalfa. Growing conditions were marked by a drouth from July 18 to August 18. The test suffered a second setback on November 12, when winds up to 50 m.p.h. flattened the field the morning harvesting began. Lodging notes were taken just before harvest and apply to November 11 only.

West South-Central Illinois: Greenfield. This test represents the somewhat poorly drained, level soils of western south-central Illinois. It is located on the H. K. Hall farm northeast of Greenfield in Macoupin County. The soil type is Herrick silt loam. Stalk breakage is often serious in this area, and many experimental hybrids were severely damaged in 1964. However, a number of commercial hybrids stood well despite the adverse conditions. Rainfall was well above normal in 1963, but 1964 had one of the driest growing seasons since 1954.

Southern Illinois: Brownstown. This test is located on the University's Brownstown Experimental Field in Fayette County. The soil is Cisne silt loam, a poorly drained, gray prairie soil with a well-developed claypan. Natural fertility of the soil is not high, but good fertilization practices and crop rotations have brought the yielding capacity of the field up to a moderately high level. In 1963, weather was generally favorable but a dry August lowered yields. The 1964 growing season was extremely dry, thus reducing yields. Some hybrids did not mature normally because of drouth damage.

Extreme Southern Illinois Bottomland: Dixon Springs. This test was located on the Dixon Springs Experimental Station in Pope County. It is on an area of Sharon silt loam, which is a light-colored, moderately well-drained to well-drained, medium-textured bottomland soil. Fertility of the field used is high, and with normal rainfall very good yields were obtained in both 1963 and 1964.

Extreme Southern Illinois Upland: Carbondale. Since the Dixon Springs test is conducted on bottomland, a test at Carbondale has been included to represent a typical upland area in southern Illinois. The hybrids entered in the Dixon Springs test were therefore grown on an upland plot at Carbondale in Jackson County. This test was carried on at the Southern Illinois University — University of Illinois Agronomy Research Center, where Roy Browning is superintendent. The soil types are classified as Weir and Stoy silt loams, which are rather shallow, silty soils over claypan. Rainfall was low in both 1963 and 1964, and the corn crop suffered severely from drouth. Yields were not high in these tests and performance of the different hybrids was variable.

SOURCES OF SEED

Ainsworth Hybrids.....	Ainsworth Seed Co.....	Mason City
Appl Hybrids.....	Appl's Seed Co.....	208 N. Main St., St. Joseph
Bear Hybrids.....	Bear Hybrid Corn Co.....	Box 628, Decatur
Blaney Hybrids.....	Blaney Farms, Inc.....	R. R. 3, Madison, Wis.
Bo-Jac Hybrids.....	Wesley A. Scroggin and Sons.....	Mt. Pulaski
Burgdorf's Hybrids.....	Burgdorf's Seed Co.....	5101 W. Broadway, Evansville, Ind.
Canterbury Hybrids.....	C. E. Canterbury Seed Co.....	Cantrall
Cargill Hybrids.....	Cargill, Inc.....	200 Grain Ex- change Bldg., Minneapolis 15, Minn.
Cornelius Hybrids.....	Cornelius Hybrid Corn Co.....	Bellevue, Iowa
Corn King Hybrids.....	Malcolm H. Grieve.....	Pierson, Iowa
Crib Filler Hybrids.....	Mitchell Farms.....	Windfall, Ind.
Crow Hybrids*.....	Crow Hybrid Corn Co.....	Milford
Dalton Hybrids.....	Dalton Farm Service.....	Galesburg
DeKalb Hybrids.....	DeKalb Agriculture Assn., Inc.....	310 N. 5th St., DeKalb
Dockendorff Hybrids.....	Max Dockendorff.....	Danville, Iowa
Dougans Hybrids*.....	R. A. Dougan.....	Box 620, Beloit, Wis.
Embro Hybrids.....	Ed. F. Mangelsdorf & Bro., Inc.....	P. O. Box 327, St. Louis 66, Mo.
Farmers Best Hybrids.....	Farmers Best Seed Co.....	Aledo
Frey Hybrids.....	Frey Hybrid Corn Co., Inc.....	Gilman
Funk Hybrids*.....	Funk Bros. Seed Co.....	Bloomington
Gildersleeve Hybrids*.....	Gildersleeve Seed Co.....	Hudson
Gutwein Hybrids.....	Fred Gutwein & Sons.....	Francesville, Ind.
Holder Hybrids.....	Holder Hybrid Corn Co.....	P.O. Box 801, Bloomington
Hunerkoch Hybrids.....	Hunerkoch Seed Co.....	Metropolis
Illinois Hybrids.....	Illinois Agr. Exp. Station.....	Urbana
Iowa-Missouri Hybrids....	Iowa-Missouri Hybrid Corn Co....	Keosauqua, Iowa
Jacques Hybrids.....	Jacques Seed Co.....	Prescott, Wis.
Lewis Hybrids.....	Frank W. Lewis & Son Seed Farms..	Ursa

Lovell Hybrids.....	Lovell Seed Co.....	R. R. 2 Sturgis, Ky.
Lowe Hybrids*.....	Lowe Seed Co.....	Kankakee
McAllister Hybrids.....	McAllister Seed Farms.....	Mount Pleasant, Iowa
McNair Hybrids.....	McNair Seed Co.....	P. O. Box 706, Lauringburg, N.C.
Moews Hybrids.....	Moews Seed Co.....	Granville
Mountjoy Hybrids.....	Mountjoy Hybrid Seed Co.....	Atlanta
Nichols Hybrids*.....	Nichols Bros.....	Hebron
Northrup-King Hybrids....	Northrup, King & Co.....	1500 Jackson St. N.E., Minne- apolis 13, Minn.
Null Hybrids.....	Null Seed Farms.....	R. F. D. 1, Colchester
P.A.G. Hybrids.....	Pfister Assoc. Growers, Inc.....	W. Galena Road, Aurora
Pioneer Hybrids.....	Pioneer Hi-Bred Corn Co. of Illinois.....	Princeton
Pocklington Hybrids*.....	Pocklington Bros. Seed Co.....	South Standard
Prairie Gold Hybrids.....	Dittmer Seeds.....	Carthage
Princeton Hybrids.....	Princeton Farms.....	P. O. Box 319, Princeton, Ind.
Producers Hybrids*.....	Producers Seed Co.....	Piper City
Robe Hybrids*.....	Robe Hybrid Corn Co.....	Smithshire
Schenk's Hybrids.....	Charles H. Schenk & Sons, Inc....	Vincennes, Ind.
Schwenk's Hybrids.....	Schwenk Seed Co.....	Edwards
Stewart Hybrids.....	Stewart Hybrids Inc.....	Princeville
Stone Hybrids.....	Stone Seed Co.....	Pleasant Plains
Stull Hybrids.....	Stull Bros., Inc.....	Sebree, Ky.
Super-Crost Hybrids.....	Edw. J. Funk & Sons.....	Kentland, Ind.
Tiemann Hybrids.....	Tiemann Tested Hybrid Corn Co...	917 E. Oakland Ave., Bloomington
Todd Hybrids.....	W. H. Todd & Son.....	Burlington, Ind.
Troyer Hybrids.....	C. E. Troyer.....	R. R. 1, LaFontaine, Ind.
United-Hagie Hybrids.....	United-Hagie Hybrids, Inc.....	503 Park St., Des Moines 9, Iowa
Van Horn Hybrids.....	Van Horn Hybrids, Inc.....	Cerro Gordo
Whisnand Hybrids.....	Whisnand Hybrid Corn Co.....	R. R. 3, Arcola
Wyffels Hybrids.....	William Wyffels.....	P. O. Box 157, R. R. 1, Geneseo

* Companies whose hybrids were entered only by county extension committees.

Table 3.—EXTREME NORTHERN ILLINOIS: Woodstock

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1962-1964				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Pioneer 371.....	81	21.5	91	82
Illinois 1961 (Station).....	81	23.4	97	83
Cargill S412.....	87	23.5	91	81
Pioneer 3414.....	80	24.0	90	87
DeKalb 238.....	83	24.2	92	82
Pioneer 354.....	78	24.2	93	86
DeKalb XL-45.....	85	24.4	96	88
Cargill 259.....	80	25.6	91	79
DeKalb 441.....	80	26.4	96	88
DeKalb 640.....	86	28.0	97	91
Average of all entries for the three years.....	77	24.6	91	85
SUMMARY: 1963-1964				
Pioneer 371.....	84	20.7	88	84
Illinois 1961 (Station).....	85	21.4	96	85
Cargill S412.....	93	22.3	88	79
Producers 302*.....	73	22.6	94	89
Nichols NB63*.....	77	23.1	94	84
Pioneer 3414.....	85	23.3	86	89
Pioneer 354.....	78	23.5	90	86
DeKalb XL-45.....	89	23.7	95	90
DeKalb 238.....	86	23.9	91	84
Pioneer 3447.....	85	24.2	92	86
Crib Filler 43.....	80	24.5	93	93
Dougans 690*.....	61	25.0	82	85
DeKalb 441.....	85	25.6	94	91
Cargill 259.....	79	25.8	87	79
Pioneer 3280.....	87	25.9	91	87
United-Hagie UH146.....	92	27.4	98	90
Pioneer 328B.....	80	28.2	92	89
Bear Unicorn X400.....	91	28.9	87	85
DeKalb 640.....	90	29.1	97	95
Average of all entries for the two years.....	79	24.1	89	86

* Entered by county extension committees.

Table 4. — NORTHERN ILLINOIS: DeKalb

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1962-1964				
	<i>bu.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>
Pioneer 371.....	102	19.3	92	91
DeKalb 400.....	104	20.2	94	92
Illinois 1961 (Station).....	110	20.3	96	96
Crib Filler 43.....	110	21.0	98	92
Pioneer 3414.....	118	21.3	96	91
DeKalb 441.....	114	21.3	95	93
DeKalb 805.....	117	21.5	98	94
DeKalb XL-361.....	130	21.8	97	95
DeKalb 633.....	118	21.8	94	92
Wyffels W-600.....	111	22.1	97	93
Pioneer 328B.....	121	22.3	99	92
Pioneer 3284.....	123	22.4	98	93
Pioneer 321.....	120	22.6	94	93
Corn King 213.....	118	22.9	97	92
Pioneer 328C.....	117	23.2	97	91
DeKalb 640.....	127	23.3	98	94
Average of all entries for the three years.....	109	22.2	96	91
SUMMARY: 1963-1964				
Pioneer 371.....	104	17.1	91	92
Illinois 1961 (Station).....	112	17.7	94	98
Bear C-14.....	128	18.0	97	96
DeKalb 400.....	106	18.1	92	94
P.A.G. SX31.....	115	18.4	94	93
Crib Filler 43.....	112	18.4	97	95
United-Hagie UH146.....	131	18.8	98	90
Pioneer 3414.....	121	18.9	94	94
DeKalb 441.....	117	18.9	96	93
Super-Crost X-5900.....	123	19.0	94	95
Wyffels W-600.....	108	19.0	95	95
Corn King 213.....	124	19.5	98	94
DeKalb XL-361.....	132	19.9	97	95
Pioneer 3284.....	127	20.0	98	94
Pioneer 328B.....	122	20.0	98	90
DeKalb 805.....	119	20.0	97	93
Pioneer 321.....	127	20.1	93	93
Wyffels W-100SC.....	118	20.1	98	91
Troyer M55.....	119	20.3	98	92
Bear Unicorn X400.....	116	20.3	95	92
DeKalb 633.....	116	20.3	94	90
Pioneer 328C.....	121	20.8	96	96
Wyffels W-300SC.....	125	20.9	98	94
Troyer M33.....	124	20.9	95	89
DeKalb 640.....	128	21.0	96	96
Pioneer 3304.....	137	21.1	94	94
Crib Filler 66.....	125	22.2	99	96
Average of all entries for the two years.....	114	19.4	96	92

Table 5. — WEST NORTH-CENTRAL ILLINOIS: Galesburg

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1962-1964				
	<i>bu.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>
Pioneer 3284.....	110	17.5	95	91
Whisnand 814.....	117	17.9	90	88
Pioneer 3359.....	109	18.4	90	87
DeKalb 640.....	123	18.7	93	90
Tiemann T-78.....	100	18.7	87	92
Farmers Best 77.....	101	19.0	91	90
Bear OK848.....	111	19.1	94	91
Bear Unicorn X600.....	119	19.2	88	93
Moews 90A.....	104	19.2	90	90
Ainsworth X-97.....	104	19.3	90	89
Pioneer 328B.....	113	19.4	91	88
Pioneer 314.....	113	19.6	95	92
McAllister 23A.....	112	19.6	96	91
Moews 560.....	100	19.6	88	89
P.A.G. SX29.....	114	19.7	91	87
DeKalb 633.....	112	19.7	92	90
Van Horn VH624.....	109	19.7	91	89
United-Hagie UH158.....	125	19.8	87	89
Farmers Best 500.....	99	19.8	96	89
McAllister 77B.....	111	19.9	90	90
Whisnand 852.....	100	19.9	91	86
Troyer M33.....	111	20.0	94	88
DeKalb 824.....	112	20.3	89	89
McAllister 6104.....	111	20.3	94	90
Pioneer 321A.....	112	20.5	91	89
Troyer M44.....	118	20.6	93	94
Pioneer 3304.....	115	20.6	95	87
Moews 700.....	103	20.7	95	90
Pioneer 321.....	124	20.9	91	90
Bear Unicorn X800.....	116	21.8	95	91
Average of all entries for the three years.....	106	19.5	92	89
SUMMARY: 1963-1964				
P.A.G. SX31.....	101	15.6	85	87
Whisnand 814.....	109	16.6	86	86
Pioneer 3284.....	99	16.9	94	90
DeKalb 640.....	122	17.2	90	93
Pioneer 3359.....	104	17.2	87	88
Tiemann T-78.....	92	17.3	81	92
P.A.G. 393.....	114	17.7	88	86
McAllister 23A.....	102	17.8	94	90
DeKalb 624.....	99	17.8	87	90
Bear OK878.....	106	17.9	92	91
Troyer M55.....	100	18.0	92	92
Farmers Best 77.....	99	18.0	89	94
Super-Crost S-7SX.....	95	18.0	90	88
Ainsworth X-97.....	89	18.0	87	90
Ainsworth X-6.....	96	18.1	88	88
Van Horn VH624.....	101	18.2	87	87
Illinois 1996 (Station).....	90	18.2	92	91
Pioneer 314.....	108	18.3	93	91
Illinois 8023 (Station).....	101	18.3	86	86
Moews 90A.....	95	18.3	87	92
Super-Crost X-3900SX.....	107	18.4	89	93
P.A.G. 399.....	107	18.4	86	88
Moews 560.....	87	18.4	86	88
United-Hagie UH158.....	117	18.6	81	90
McAllister 77B.....	101	18.6	87	89
Producers 953*.....	85	18.6	87	88
Pioneer 328B.....	103	18.7	87	90
Whisnand 852.....	102	18.7	88	90
DeKalb 633.....	108	18.8	92	91
Bear Unicorn X600.....	108	18.8	84	94
P.A.G. SX63.....	106	18.8	81	92
P.A.G. SX29.....	108	19.3	88	87

* Entered by county extension committees.

(Table is concluded on next page)

Table 5. — Galesburg — Concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1963-1964 — concluded				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
United-Hagie UH1580.....	107	19.3	96	91
Troyer M33.....	103	19.3	92	91
McAllister 6104.....	95	19.3	91	90
Farmers Best 500.....	89	19.3	96	89
Moews Sup'r Maiz 5.....	108	19.4	93	86
Troyer M44.....	107	19.4	90	95
DeKalb 824.....	104	19.4	84	88
Pioneer 3306.....	131	19.5	92	95
Illinois 3347 (Station).....	114	19.5	88	92
Pioneer 3304.....	106	19.5	93	88
Pioneer 321A.....	110	19.9	89	89
Moews 700.....	87	19.9	93	90
Illinois 3343 (Station).....	114	20.1	93	92
Pioneer 321.....	130	20.2	89	92
Null N-74A.....	105	20.2	94	89
Illinois 8025 (Station).....	103	20.5	87	91
Bear Unicorn X800.....	108	20.9	93	90
Average of all entries for the two years.....	99	18.4	90	90

Table 6. — EAST NORTH-CENTRAL ILLINOIS: Ashkum

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1962-1964				
	<i>bu.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>
Pioneer 3359.....	127	17.8	95	91
Frey 692.....	97	18.8	88	85
DeKalb 805.....	101	18.9	90	87
Ainsworth X-96.....	99	19.0	89	87
Pioneer 3284.....	105	19.1	96	89
Van Horn VH109.....	105	19.2	95	88
Pioneer 328B.....	104	19.2	89	94
Cargill 330.....	108	19.5	86	90
Frey 892.....	100	19.5	89	92
Van Horn VH624.....	106	19.9	90	89
DeKalb 824.....	100	20.0	88	89
Pioneer 321.....	111	20.2	91	93
Troyer M13TT.....	94	20.2	91	90
Pioneer 321A.....	121	20.3	90	94
Troyer M33.....	97	20.4	91	86
United-Hagie UH158.....	113	20.6	89	88
Crib Filler 66.....	113	20.6	88	87
Crib Filler 78.....	100	20.9	79	87
Pioneer 3304.....	119	21.4	97	91
Crib Filler 123.....	100	21.7	86	88
Average of all entries for the three years.....	100	19.8	90	89
SUMMARY: 1963-1964				
P.A.G. SX31.....	95	14.8	94	90
DeKalb D523.....	111	15.0	94	92
Pioneer 3359.....	117	15.6	94	90
Super-Crost X-5900.....	104	16.0	90	85
P.A.G. 399.....	100	16.2	91	95
Super-Crost X-3900SX.....	90	16.3	66	90
P.A.G. 393.....	101	16.4	91	94
Ainsworth X-96.....	93	16.4	88	89
Gutwein 650A.....	87	16.4	91	84
Frey 692.....	93	16.8	87	85
DeKalb 805.....	90	16.8	88	86
Gutwein 67.....	96	16.9	94	92
Pioneer 328B.....	100	17.0	91	93
Pioneer 3284.....	100	17.1	96	90
Troyer M13TT.....	85	17.1	91	91
DeKalb 624.....	95	17.2	92	87
Pioneer 321A.....	105	17.3	89	94
Van Horn VH109.....	101	17.4	95	86
Cargill 330.....	99	17.4	89	90
DeKalb 824.....	87	17.4	88	89
Frey 892.....	88	17.5	87	89
United-Hagie UH158.....	105	18.0	94	85
Troyer M44.....	91	18.0	93	87
P.A.G. SX29.....	110	18.1	91	94
Moews 527.....	94	18.1	88	88
Van Horn VH624.....	92	18.1	91	86
Pioneer 3306.....	111	18.3	92	86
Pioneer 3304.....	99	18.4	98	89
Ainsworth X-6.....	98	18.4	90	85
Pioneer 321.....	109	18.5	91	94
Super-Crost S-7SX.....	90	18.5	93	86
Troyer M33.....	88	18.6	91	83
Crib Filler 78.....	93	18.7	82	87
United-Hagie UH1580.....	94	19.2	92	84
Crib Filler 66.....	104	19.3	90	89
Crib Filler 123.....	91	19.8	86	88
Average of all entries for the two years.....	94	17.2	90	89

Table 7. — WEST-CENTRAL ILLINOIS: Augusta

Entry	Total acre yield	Molsture in grain at harvest	Erect plants	Stand
SUMMARY: 1962-1964				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Whisnand 814.....	111	18.2	95	86
Moews 524.....	104	18.2	94	88
Pioneer 321.....	117	19.3	95	90
Troyer M44.....	113	19.4	96	93
Whisnand 852.....	109	19.4	94	87
Pioneer 3304.....	111	19.7	98	84
DeKalb 633.....	93	19.7	92	81
Pioneer 312A.....	113	20.1	90	86
Ainsworth SD-36.....	103	20.3	95	91
Average of all entries for the three years.....	103	19.2	94	85
SUMMARY: 1963-1964				
DeKalb 624.....	98	16.9	97	88
Cargill 950.....	86	17.6	91	80
DeKalb D523.....	108	18.2	97	89
Ainsworth X-98A.....	107	18.2	98	85
Whisnand 814.....	106	18.2	95	87
Troyer M44.....	109	18.5	97	89
Moews 524.....	90	18.5	93	85
Null N-74.....	101	18.8	93	90
Whisnand 852.....	106	19.1	97	83
Pioneer 321.....	108	19.2	96	92
Pioneer 3304.....	110	19.4	99	84
DeKalb 633.....	91	19.4	91	79
Moews 527.....	94	19.5	97	84
Bear OK96.....	100	19.7	95	86
Ainsworth SD-36.....	96	19.9	94	91
Pioneer 312A.....	106	20.0	92	87
Bear Unicorn X800.....	103	20.3	93	84
Pioneer 310.....	110	20.4	96	90
Ainsworth X-100.....	99	20.8	95	85
Cargill 360.....	97	20.9	94	87
Pioneer 00348.....	110	22.0	91	87
Average of all entries for the two years.....	98	19.2	94	85

Table 8.—CENTRAL ILLINOIS: Stanford

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1962-1964				
	<i>bu.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>
Mountjoy M-100.....	109	20.2	87	91
P.A.G. SX29.....	123	21.0	95	88
Ainsworth X-6.....	117	21.0	93	86
Illinois 3346 (Station).....	115	21.0	89	94
Whisnand 814.....	120	21.3	87	92
Pioneer 3304.....	127	21.7	95	90
P.A.G. SX19.....	122	21.7	84	93
Illinois 3347 (Station).....	120	21.7	90	91
Van Horn VH622.....	117	21.7	85	85
Crib Filler 66.....	115	21.8	89	85
Frey F60.....	125	21.9	90	92
Pioneer 321.....	121	22.0	88	91
Todd 855.....	115	22.4	89	88
Frey F57.....	113	22.4	94	86
Whisnand 852.....	106	22.4	86	86
Pioneer 321A.....	139	22.6	90	92
Illinois 3348 (Station).....	98	22.6	85	86
Van Horn VH624.....	116	22.8	87	86
Crib Filler 78.....	113	22.8	89	85
Moews 90A.....	109	22.8	89	92
Pioneer 302B.....	122	22.9	88	90
Average of all entries for the three years.....	112	21.7	90	89

SUMMARY: 1963-1964

Mountjoy M-210.....	101	19.1	91	85
Mountjoy M-444.....	99	19.6	90	86
Ainsworth X-103.....	120	19.7	94	92
Van Horn C.A.P. 1.....	115	19.8	83	89
Mountjoy M-666.....	100	19.8	91	93
P.A.G. SX31.....	103	19.9	91	94
Illinois 8001 (Station).....	116	20.6	90	91
Van Horn VH622.....	111	20.6	81	85
Illinois 3346 (Station).....	109	20.6	86	93
Frey F60.....	116	20.7	87	91
DeKalb D523.....	113	20.7	92	92
Ainsworth X-6.....	110	20.7	91	87
P.A.G. 399.....	108	20.7	93	89
P.A.G. SX29.....	113	20.8	93	86
Mountjoy M-100.....	100	20.8	85	91
P.A.G. SX19.....	115	20.9	80	94
Bear Unicorn X400.....	110	21.0	89	85
Illinois 3347 (Station).....	112	21.1	89	91
P.A.G. 393.....	108	21.4	93	90
Bear C-14.....	103	21.4	94	87
Illinois 8015 (Station).....	124	21.5	93	93
Frey F57.....	100	21.6	94	88
Whisnand 814.....	116	21.8	85	92
P.A.G. SX63.....	127	21.9	92	91
Pioneer 321.....	114	21.9	86	91
Moews Sup'r Maiz 5.....	113	21.9	87	88
Todd 855.....	107	21.9	89	87
Todd 635.....	90	21.9	85	91
Illinois 3348 (Station).....	80	21.9	83	81
Pioneer 321A.....	136	22.1	89	92
Pioneer 3304.....	118	22.1	95	90
Crib Filler 66.....	108	22.2	86	88
Moews 527.....	110	22.3	93	86
Whisnand 852.....	102	22.3	83	89
Pioneer 302B.....	115	22.4	88	89
Bear OK55A.....	113	22.4	88	88
Illinois 8025 (Station).....	123	22.5	93	88
Van Horn VII624.....	104	22.7	85	85
Crib Filler 78.....	107	22.8	87	83
Moews 90A.....	97	23.0	90	92
Pioneer 310.....	130	23.1	92	90
Todd 862.....	97	23.7	96	87
Pioneer 00348.....	123	25.3	90	94
Average of all entries for the two years.....	106	21.4	90	88

Table 9. — EAST-CENTRAL ILLINOIS: Urbana

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1962-1964				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Pioneer 321A.....	138	17.0	98	93
Pioneer 3284.....	129	17.0	98	91
DeKalb 640.....	129	17.2	100	95
Whisnand 814.....	129	17.2	97	92
Frey 506.....	127	17.4	99	97
P.A.G. SX29.....	137	17.5	99	93
Schenk S-73.....	127	17.5	99	93
Van Horn VH624.....	128	17.6	98	92
P.A.G. SX19.....	123	17.6	98	94
Moews 524A.....	114	17.6	98	93
Pioneer 3304.....	137	17.7	99	91
Ainsworth X-98A.....	123	17.8	99	94
Bear OK878.....	123	17.9	99	94
Super-Crost 891.....	123	18.0	99	92
Crib Filler 116.....	120	18.0	96	98
DeKalb 824.....	123	18.1	97	95
Pioneer 321.....	132	18.2	98	95
Crib Filler 123.....	123	18.2	96	95
Troyer M44.....	118	18.2	98	95
Princeton 840-A.....	113	18.2	96	89
Crib Filler 134.....	133	18.3	97	96
Ainsworth X-6.....	121	18.3	99	91
Frey F60.....	131	18.4	99	92
Whisnand 852.....	129	18.4	97	91
Princeton 8-A.....	114	18.5	99	93
Crib Filler 78.....	124	18.8	97	91
Crib Filler 66.....	130	18.9	99	91
Princeton 990-A.....	123	22.6	97	94
Average of all entries for the three years.....	121	17.9	98	94
SUMMARY: 1963-1964				
Bear C-14.....	133	14.8	100	96
Whisnand 814.....	133	15.6	96	95
DeKalb 640.....	130	15.6	100	97
Pioneer 3284.....	138	15.8	98	98
DeKalb D523.....	127	15.9	100	95
Producers 953*.....	111	15.9	97	95
Frey 506.....	131	16.0	99	97
Pioneer 321A.....	141	16.1	98	93
Appl S.S.44.....	114	16.1	100	91
P.A.G. SX29.....	134	16.2	99	92
Princeton SX-800.....	122	16.2	99	90
Troyer M55.....	121	16.2	98	94
Moews 524A.....	113	16.2	98	93
Frey 692.....	119	16.3	96	96
Pioneer 3304.....	146	16.4	99	94
Van Horn VH624.....	129	16.4	98	95
P.A.G. SX19.....	124	16.4	98	95
Van Horn C.A.P.2.....	121	16.4	96	92
Super-Crost S-7SX.....	113	16.4	99	95
Pioneer 3306.....	148	16.5	99	95
Appl S.S.404.....	130	16.5	98	96
Moews 527.....	124	16.7	100	97
Super-Crost 891.....	124	16.7	99	94
DeKalb 824.....	119	16.7	98	96
Princeton 840-A.....	117	16.7	98	92
Schenk S-73.....	128	16.8	100	95
Ainsworth X-98A.....	124	16.8	99	94
Crows 722*.....	117	16.8	99	90
Bear OK878.....	116	16.8	99	94
Pioneer 321.....	135	16.9	98	98
Funks G-96*.....	122	16.9	99	96
Ainsworth X-6.....	117	16.9	99	92
Frey F60.....	128	17.0	98	92
Moews Sup'r Maiz 5.....	121	17.0	99	94

(Table is concluded on next page)

Table 9. — Urbana — Concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1963-1964 — concluded				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Troyer M44.....	118	17.0	98	95
Crib Filler 123.....	117	17.1	96	95
Bo-Jac 11-2.....	127	17.2	99	96
Princeton 890-AA.....	118	17.2	93	96
Canterbury L-4.....	116	17.3	98	96
Crib Filler 116.....	114	17.4	94	99
Funks G-91*.....	110	17.4	94	95
P.A.G. SX63.....	136	17.5	99	94
Whisnand 852.....	133	17.6	97	92
Crib Filler 78.....	125	17.6	96	93
Crib Filler 66.....	126	17.7	99	92
Crib Filler 134.....	129	17.8	98	96
Bear OK96.....	126	17.8	97	95
Princeton 8-A.....	118	17.8	99	95
Pioneer 310.....	142	17.9	98	97
Cargill 360.....	123	18.0	98	94
Schenk SS-77.....	129	18.3	99	93
Van Horn VH628.....	142	19.2	97	96
Pioneer 00348.....	130	20.1	97	98
Princeton 990-A.....	116	23.2	97	96
Average of all entries for the two years.....	122	16.8	98	94

* Entered by county extension committees.

Table 10. — WEST SOUTH-CENTRAL ILLINOIS: Greenfield

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1962-1964				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
DeKalb 640.....	119	15.9	97	92
Illinois 8029 (Station).....	132	16.3	92	90
DeKalb 805.....	114	16.3	96	88
Moews 69A.....	115	16.6	98	86
Bear OK848.....	122	16.9	96	92
Illinois 8010 (Station).....	127	17.2	93	90
Van Horn VH624.....	118	17.2	95	94
Pioneer 3304.....	122	17.5	99	91
Ainsworth X-100.....	127	18.0	96	95
DeKalb 824.....	113	18.0	94	91
Pioneer 321.....	130	18.2	95	93
Pioneer 312A.....	128	18.7	90	94
Pioneer 309B.....	138	21.1	92	92
Average of all entries for the three years.....	117	17.8	93	90
SUMMARY: 1963-1964				
DeKalb 805.....	115	14.9	99	90
DeKalb 640.....	115	14.9	98	95
Illinois 8029 (Station).....	131	15.0	93	92
Moews 69A.....	112	15.8	99	88
Van Horn VH624.....	111	16.0	96	94
Illinois 8010 (Station).....	127	16.1	98	93
Bear OK848.....	119	16.1	96	94
DeKalb 633.....	113	16.3	94	91
Moews Sup'r Maiz 5.....	113	16.5	96	92
P.A.G. SX63.....	135	16.6	96	97
Van Horn VH628.....	133	16.6	94	92
DeKalb 624.....	111	16.6	97	89
Canterbury L-4.....	120	16.7	97	93
Pioneer 3304.....	117	16.7	100	91
Moews 527.....	114	16.8	98	93
Ainsworth X-100.....	120	17.1	98	95
DeKalb 824.....	109	17.8	93	91
Pioneer 310.....	135	18.0	97	95
Pioneer 312A.....	126	18.0	94	97
Pioneer 321.....	116	18.1	95	93
Pioneer 00348.....	138	20.2	94	96
Pioneer 309B.....	128	21.1	93	94
Average of all entries for the two years.....	116	16.7	96	93

Table 11.— SOUTHERN ILLINOIS: Brownstown

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1962-1964				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Pioneer 3304.....	72	16.8	90	88
Tiemann T-78.....	65	17.8	88	91
Bear Unicorn X600.....	76	17.9	92	83
Bear OK96A.....	71	17.9	86	85
Pioneer 314*.....	70	18.3	88	90
Van Horn VH624.....	70	18.5	94	85
Van Horn VH622.....	69	18.5	81	84
Crib Filler 78.....	77	18.8	84	87
Pioneer 321.....	70	18.8	86	85
Stull's 101Y.....	79	19.3	87	87
Schenk S-73.....	67	19.3	81	90
Pioneer 312A.....	66	20.3	85	88
DeKalb 898B.....	70	21.0	92	92
Ainsworth X-100.....	67	21.2	93	89
Pioneer 309B.....	61	23.7	93	91
DeKalb 1006.....	67	23.9	93	87
Average of all entries for the three years.....	65	19.3	88	87
SUMMARY: 1963-1964				
Bear OK96A.....	74	16.3	89	85
Pioneer 3304.....	71	16.3	89	88
Funks G-96*.....	70	16.3	93	84
Van Horn C.A.P.1.....	73	16.5	90	82
Van Horn VH622.....	64	16.6	81	82
Bear OK55A.....	66	16.8	93	88
Stull's 100YB.....	64	16.8	84	89
DeKalb 805.....	68	16.9	87	84
Tiemann T-78.....	66	16.9	91	93
Van Horn VH624.....	70	17.2	97	80
Canterbury L-4.....	64	17.2	94	88
Bear Unicorn X600.....	77	17.7	96	82
DeKalb 824.....	73	17.8	95	82
Pioneer 321.....	68	18.0	88	84
Crib Filler 78.....	77	18.1	86	86
Stull's 101Y.....	75	18.2	87	86
Crib Filler 66.....	69	18.2	88	90
Pioneer 314*.....	68	18.3	88	92
Stull's 807YSX.....	66	18.5	88	85
Schenk S-73.....	64	19.2	83	88
Van Horn VH628.....	66	19.3	97	84
Cargill 360*.....	63	19.3	94	87
Stull's 500WA.....	60	19.4	85	82
Pioneer 312A.....	69	19.6	89	87
DeKalb 898B.....	68	20.2	94	91
Ainsworth X-100.....	67	20.2	98	91
Pioneer 310.....	64	20.3	91	88
Pioneer 00348.....	73	21.7	96	91
Stull's 444WSX.....	65	23.1	92	90
DeKalb 1006.....	63	23.5	96	86
Pioneer 309B.....	60	23.6	96	91
Average of all entries for the two years.....	63	18.8	91	86

* Entered by county extension committees.

Table 12.—EXTREME SOUTHERN ILLINOIS BOTTOMLAND:
Dixon Springs

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1962-1964				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Whisnand 830.....	109	16.9	93	86
Pioneer 321.....	119	18.2	100	87
Princeton 840A.....	90	18.4	97	80
Illinois 9001 (Station).....	117	18.6	97	89
Schenk S-73.....	102	18.6	96	85
Princeton 8-A.....	97	19.0	98	88
Burgdorf B-846.....	92	19.0	96	85
Stull's 101V.....	114	19.1	94	86
Pioneer 312B.....	109	19.5	94	88
Ainsworth SD-36.....	106	19.5	99	88
Ainsworth X-100.....	106	19.6	97	86
Pioneer 3304.....	105	19.6	99	85
Pioneer 312A.....	111	19.8	95	89
Burgdorf B-99W.....	108	19.8	96	84
Pioneer 302B.....	104	19.8	95	83
Illinois 3364 (Station).....	115	20.8	96	87
DeKalb 1006.....	119	21.0	98	88
Princeton 990-A.....	115	21.1	97	88
DeKalb 1004.....	110	21.6	92	89
DeKalb C912.....	119	22.8	99	84
Pioneer 309B.....	111	24.1	97	85
Average of all entries for the three years.....	106	19.6	96	85
SUMMARY: 1963-1964				
Whisnand 830.....	107	14.6	91	92
Princeton SX-800.....	95	14.9	99	84
P.A.G. SX63.....	118	15.7	89	86
Whisnand 814.....	100	15.8	97	87
Pioneer 321.....	124	16.3	100	92
Hunerkoch H-16.....	100	16.5	98	93
Princeton 840-A.....	95	16.5	99	82
Stull's 101V.....	112	16.7	93	87
Princeton 890-AA.....	99	16.7	89	85
Pioneer 3304.....	110	16.8	99	88
Illinois 1851 (Station).....	103	16.8	93	81
Burgdorf B-846.....	98	16.8	97	86
Princeton 8-A.....	101	17.0	97	90
Stull's 100VB.....	89	17.0	98	83
Illinois 9001 (Station).....	114	17.1	96	89
Burgdorf B-99W.....	109	17.3	94	91
Ainsworth X-100.....	108	17.3	97	91
Stull's 807YSX.....	110	17.4	96	91
Pioneer 310.....	115	17.5	98	90
Whisnand 904W.....	111	17.5	95	87
Hunerkoch H-30.....	110	17.6	92	84
Pioneer 312B.....	109	17.6	92	91
Schenk S-73.....	101	17.6	95	88
DeKalb 824.....	100	17.8	95	89
Pioneer 312A.....	111	17.9	94	94
Ainsworth SD-36.....	110	18.1	98	90
Pioneer 302B.....	93	18.1	93	82
Stull's 500WA.....	110	18.4	91	87
Illinois 8009 (Station).....	118	18.5	94	89
Princeton 990-A.....	120	19.0	96	94
DeKalb 1006.....	123	19.2	98	92
Illinois 3364 (Station).....	118	19.3	94	92
Schenk S-96W.....	105	19.5	93	83
Stull's 444WSX.....	123	19.6	96	89
DeKalb 1004.....	103	20.6	91	91
P.A.G. SX59.....	105	20.9	95	88
DeKalb C912.....	123	21.0	99	84
Pioneer 00348.....	124	21.4	94	94
Pioneer 309B.....	110	22.3	98	95
Average of all entries for the two years.....	109	17.9	95	87

Table 13.—EXTREME SOUTHERN ILLINOIS UPLAND:
Carbondale

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1962-1964				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Illinois 9001 (Station).....	57	16.6	91	92
Whisnand 830.....	65	16.9	91	87
Pioneer 3304.....	64	16.9	79	88
Princeton 840-A.....	52	17.0	85	84
Ainsworth SD-36.....	67	17.6	95	91
Illinois 1851 (Station).....	60	17.6	90	93
Stull's 101Y.....	60	17.6	84	88
Princeton 8-A.....	55	17.6	91	88
Burgdorf B-846.....	57	17.7	89	85
Schenk S-73.....	49	17.7	83	90
Pioneer 321.....	57	18.1	90	92
Burgdorf B-99W.....	55	18.3	90	87
Pioneer 312A.....	59	18.5	90	89
Pioneer 302B.....	56	18.5	94	92
Pioneer 312B.....	55	18.6	88	88
Ainsworth X-100.....	49	19.0	94	90
Princeton 990-A.....	49	19.1	93	84
Illinois 3364 (Station).....	57	20.0	91	90
DeKalb 1004.....	47	20.1	86	86
DeKalb 1006.....	55	21.5	93	90
DeKalb C912.....	64	21.9	91	91
Pioneer 309B.....	48	22.2	91	85
Average of all entries for the three years.....	54	18.1	88	89
SUMMARY: 1963-1964				
Illinois 8009 (Station).....	48	15.6	86	91
Illinois 9001 (Station).....	54	15.7	91	90
Hunerkoch H-16.....	52	16.0	93	81
Princeton SX-800.....	51	16.1	94	85
Pioneer 3304.....	58	16.4	69	90
Whisnand 814.....	59	16.7	94	88
Princeton 840-A.....	51	16.7	85	87
P.A.G. SX63.....	65	16.8	74	94
Ainsworth SD-36.....	61	16.9	93	91
Whisnand 830.....	62	17.0	90	88
Princeton 8-A.....	54	17.2	89	90
Stull's 101Y.....	51	17.2	80	89
Burgdorf B-846.....	57	17.3	84	89
Illinois 1851 (Station).....	52	17.6	90	95
Burgdorf B-99W.....	49	17.7	91	92
Stull's 100YB.....	48	17.7	78	91
Whisnand 904W.....	48	17.8	82	88
Schenk S-73.....	45	17.8	81	92
Pioneer 321.....	58	18.0	90	91
Schenk S-96W.....	51	18.1	91	87
Pioneer 302B.....	50	18.1	94	92
DeKalb 824.....	57	18.2	81	90
Pioneer 312A.....	53	18.2	90	92
Pioneer 312B.....	57	18.3	89	86
Hunerkoch H-30.....	33	18.3	87	83
P.A.G. SX59.....	58	18.4	82	88
Ainsworth X-100.....	45	18.4	92	93
Stull's 807YSX.....	53	18.7	81	84
Princeton 890-AA.....	45	18.8	87	86
Stull's 500WA.....	50	19.0	87	93
Pioneer 310.....	55	19.2	92	90
Princeton 990-A.....	44	19.2	95	84
Illinois 3364 (Station).....	54	19.9	93	92
DeKalb 1004.....	48	20.0	87	86
Pioneer 00348.....	55	20.7	92	92
Stull's 444WSX.....	48	20.8	92	91
DeKalb 1006.....	50	21.0	93	92
DeKalb C912.....	60	21.8	90	89
Pioneer 309B.....	43	22.3	89	86
Average of all entries for the two years.....	51	18.4	88	88

Table 14. — INCREASED PLANTING RATES —
NORTHERN ILLINOIS: DeKalb
(20,000 plants per acre)

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1962-1964				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Pioneer 371.....	104	18.9	95	88
Pioneer 354*.....	98	20.8	87	86
Pioneer 3414.....	120	21.4	92	93
DeKalb 441.....	118	21.5	95	91
Illinois Hy2 x Oh7 (Station).....	121	21.8	91	89
Pioneer 328C.....	123	22.6	92	93
Pioneer 3284.....	121	22.6	98	88
Pioneer 321.....	128	22.8	93	90
DeKalb 633.....	118	22.9	93	87
DeKalb 640.....	127	23.2	95	90
Pioneer 328B.....	124	23.2	95	92
Average of all entries for the three years.....	112	21.4	93	90
SUMMARY: 1963-1964				
Pioneer 371.....	111	16.7	94	91
Pioneer 354*.....	102	18.5	86	84
DeKalb 441.....	123	18.6	94	90
Illinois Hy2 x Oh7 (Station).....	123	18.9	92	87
P.A.G. SX31.....	125	19.0	97	92
Pioneer 3414.....	119	19.2	90	95
Pioneer 3284.....	128	20.0	97	91
Super-Crost X-5900.....	122	20.0	90	91
DeKalb 640.....	127	20.1	92	92
DeKalb 633.....	123	20.2	92	89
DeKalb XL-45*.....	105	20.3	94	92
Pioneer 321.....	132	21.0	93	92
Pioneer 328C.....	122	21.0	91	93
Pioneer 328B.....	124	21.4	96	90
Pioneer 3304.....	138	21.6	92	89
Average of all entries for the two years.....	114	19.3	93	91

* Entered by county extension committees.

Table 15. — INCREASED PLANTING RATES —
EAST-CENTRAL ILLINOIS: Urbana^a
(20,000 plants per acre)

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1962-1964				
	<i>bu.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>
Illinois Hy2 x Oh7 (Station).....	106	17.1	89	91
DeKalb 640.....	120	17.4	95	94
Pioneer 3284.....	117	17.9	96	95
P.A.G. SX29.....	116	18.4	100	91
Pioneer 3304.....	105	18.6	95	91
Frey F62.....	123	18.8	96	95
P.A.G. SX19.....	107	18.8	91	90
Crib Filler 116.....	101	18.8	91	92
Pioneer 321.....	111	19.2	94	93
Pioneer 321A.....	109	19.3	88	92
Whisnand 852.....	108	19.5	91	91
Average of all entries for the three years.....	94	18.0	93	92
SUMMARY: 1963-1964				
Gutwein 67.....	98	16.1	97	93
DeKalb 640.....	105	16.7	93	93
Illinois Hy2 x Oh7 (Station).....	93	16.9	85	91
McAllister 44B.....	93	17.1	93	94
DeKalb D523.....	104	17.3	95	96
Whisnand 814.....	99	17.4	96	88
Pioneer 3284.....	103	17.6	94	95
Frey F60.....	101	17.7	96	95
P.A.G. 393.....	95	17.9	95	95
P.A.G. SX19.....	94	17.9	88	92
Pioneer 3306.....	127	18.0	88	91
DeKalb 624.....	97	18.0	90	91
Pioneer 3304.....	92	18.1	95	90
DeKalb XL-361.....	89	18.2	97	96
Crib Filler 116.....	80	18.4	88	91
P.A.G. SX29.....	105	18.5	100	89
Whisnand 852.....	92	18.5	89	93
P.A.G. 399.....	84	18.6	95	94
Frey F62.....	111	18.7	94	96
Pioneer 321.....	102	18.8	92	94
P.A.G. SX63.....	107	18.9	96	91
Pioneer 310.....	97	19.0	96	93
Pioneer 321A.....	97	19.2	87	93
Pioneer 00348.....	81	20.2	95	94
Average of all entries for the two years.....	84	17.5	93	93

^a Because of field conditions in 1964, this test was planted 16 days later than the normal, 16,000-rate test. Therefore, plants at this test location suffered sufficient damage from the mid-summer drought of 1964 to reduce long-term averages.

Table 16. — INCREASED PLANTING RATES — WEST
SOUTH-CENTRAL ILLINOIS: Greenfield
(20,000 plants per acre)

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1962-1964				
	<i>bu.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>
Illinois Hy2 x Oh7 (Station).....	108	15.6	71	91
Pioneer 3304.....	129	17.4	94	89
Illinois 8010 (Station).....	129	17.7	85	93
Pioneer 321.....	137	17.8	83	93
Pioneer 312A.....	110	19.3	89	94
Pioneer 309B.....	135	21.2	88	88
Average of all entries for the three years.....	119	17.2	89	91
SUMMARY: 1963-1964				
Illinois Hy2 x Oh7 (Station).....	117	14.4	87	92
P.A.G. SX63.....	147	15.8	94	92
DeKalb 640.....	130	16.1	96	92
DeKalb D523.....	125	16.2	96	92
Pioneer 3304.....	125	16.7	97	91
Canterbury L-4.....	118	16.8	95	94
Illinois 8010 (Station).....	133	17.0	88	92
Funk's G-96*.....	114	17.1	90	89
Funk's G-144*.....	116	17.2	88	89
Pioneer 310.....	140	17.3	89	96
DeKalb 824.....	113	17.3	88	92
Pioneer 321.....	133	17.5	91	93
Pioneer 00348.....	138	18.4	87	95
Pioneer 312A.....	109	18.6	94	97
Pioneer 309B.....	125	20.7	92	89
Average of all entries for the two years.....	120	16.4	93	92

* Entered by county extension committees.

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